PAI-1
Plasminogen activator inhibitor-1

Plasminogen activator inhibitor-1 (PAI-1) is the primary inhibitor of tissue-type plasminogen activator (tPA) and urokinase-type plasminogen activator (uPA), and functionally serves to suppress tissue and plasma fibrinolysis.

PAI-1 is a member of the serpin family of proteins and exists in multiple conformations of which a minor component, the “active” form, exhibits inhibitory effects against tPA and uPA.

PAI-1 is an endogenous inhibitor of urokinase-type plasminogen activator (uPA), and its expression is regulated by a number of intrinsic factors (e.g., cytokines and growth factors) and extrinsic factors (e.g., cellular stress).

PAI-1 seems to play a pivotal role in tumor growth and may represent a potential therapeutic target for bladder cancer.
PAI-1 Inhibitors

**Loureirin B**

Cat. No.: HY-N1504

Loureirin B, a flavonoid extracted from *Dracaena cochinchinensis*, is an inhibitor of plasminogen activator inhibitor-1 (PAI-1), with an IC₅₀ of 26.10 μM; Loureirin B also inhibits KᵥATP, the phosphorylation of ERK and JNK, and has anti-diabetic activity.

- **Purity:** 99.99%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 5 mg

**Tiplaxtinin**  
(PAI-039; Tiplasinin)

Cat. No.: HY-15253

Tiplaxtinin is a selective and orally efficacious inhibitor of plasminogen activator inhibitor-1 (PAI-1) with IC₅₀ of 2.7 μM.

- **Purity:** 97.60%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

**TM5275 sodium**

Cat. No.: HY-100447

TM5275 sodium is a plasminogen activator inhibitor (PAI-1) with an IC₅₀ of 6.95 μM.

- **Purity:** 98.97%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

**TM5441**

Cat. No.: HY-101761

TM5441 is an orally bioavailable inhibitor of plasminogen activator inhibitor-1 (PAI-1), has IC₅₀ values between 13.9 and 51.1 μM and induces intrinsic apoptosis in several human cancer cell lines.

- **Purity:** 98.34%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

**ZK824859**

Cat. No.: HY-114330

ZK824859 is an oral available and selective urokinase plasminogen activator (uPA) inhibitor with IC₅₀ of 79 nM, 1580 nM and 1330 nM for human uPA, tPA, and plasmin, respectively.

- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 5 mg, 10 mg, 50 mg, 100 mg

**ZK824859 hydrochloride**

Cat. No.: HY-114330A

ZK824859 hydrochloride is an oral available and selective urokinase plasminogen activator (uPA) inhibitor with IC₅₀ of 79 nM, 1580 nM and 1330 nM for human uPA, tPA, and plasmin, respectively.

- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg